User,s Manual QK-121 AIR KNIFE

Read this manual carefully before installing, operating, servicing or repairing.

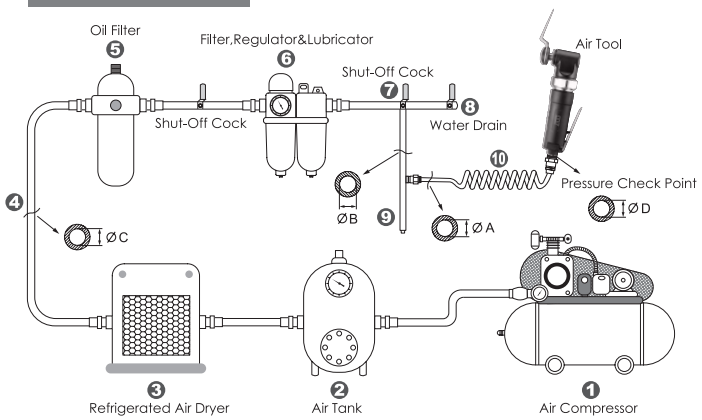
Working environment:

1. Using these tools in any potentially explosive environment is strictly prohibited.
2. It is always recommended that these types of tools must be operated when standing on a solid or firm location.
3. Always use these tools in a well ventilated area.
4. Slipping, stumbling and falling are the major causes of potential serious injury, therefore, a clean and clutter free surface in the working area before operating the tools is strongly recommended.

Air supply and connection requirements:

1. The maximum recommended air pressure during operation must not exceed 90 psi (6.3bar). Higher air pressure may create unsafe operating conditions for the tool and the user.
2. The compressed air should be cooled and have a water filter installed at the outlet end of the compressor. Even with a water filter installed, some water may still condense in the piping or hose and will enter the tool mechanism causing premature damage to the tool. Therefore, it is recommended to install an air filter-lubricator device somewhere between the tool and the compressor.
3. Always use an air compressor of the proper capacity to operate each tool.
4. Clean the hose with a blast of compressed air before connecting the hose to the air tool. This will prevent both moisture and dust inside the hose from entering the tool and causing possible rust or malfunction.

Ideal system connection:



Piping diameters and length requirement:

★The diameter ΦA required for the inlet pipe ⑩ is recommended on the specification table.
★The diameter ΦB required for the branch pipe (from ⑦ to ⑨) should be 2 times as large as ΦA.
ΦB = 2 x ΦA
★The diameter ΦC required for the primary air supply (from ① to ⑧) should be 3 times as large as ΦA.
ΦC = 3 x ΦA
★The length for the inlet pipe ⑩ should be less than 15 feet (4.5m).

Warning:

1. This tool should only be used as a hand operated tool. It is powered by compressed air and is not insulated against electric shock.
2. This tool is specially designed for riveting sheet metals together. Any application or use of this tool other than what it is designed for is strictly prohibited.
3. High sound levels may cause hearing damage. Always wear hearing protection when operating this tool.
4. Wearing eye/face protection can reduce the danger of high-speed materials being ejected from tool use.
5. User must wear proper clothing. Loose clothing, long hair, stings, straps, belts and jewelry should not be worn when operating this tool.
6. Make sure that the all the specifications of the rivets to be used are compatible with this tool.
7. Check the protection against the ejecting of rivet stem in place and is operative.
8. Make certain to stand on a solid or firm location and keep body in well-balanced position while operating this tool.
9. Always turn off the air supply and disconnect the air hose before changing rivet nose or making adjustments on this tool.
10. Release the throttle lever to avoid danger if there is a failure of energy supply or when connecting or disconnecting the air hose.
11. Prolonged use will cause user fatigue. Periodic breaks are recommended for user safety.
12. It is recommended to stop operating the tool whenever the user experiences discomfort, tingling or pain during use.
13. Beware if the compressed air hose breaks unexpectedly, or is being connected or disconnected improperly. This whipping action may cause injury.

EC DECLARATION OF CONFORMITY

Original Language
Serial Number: Please refer to the tool
Air Windscreen Cutter
Item No.: QK-121 6.3 bar (90. psi)

We declare under our own responsibility that the above machinery fulfils all the relevant provisions of Machinery Directive 2006/42/EC and its amendment and is manufactured and tested according to the following standards:
EN ISO 11148-12 / EN ISO 15744 / EN ISO 28927-8

Declared in: Taichung, Taiwan
Dated:01/06/2013

Signature

Jonney Chen
Declared by: QA Manager

Manufacturer:
Mighty Seven International Co., Ltd.
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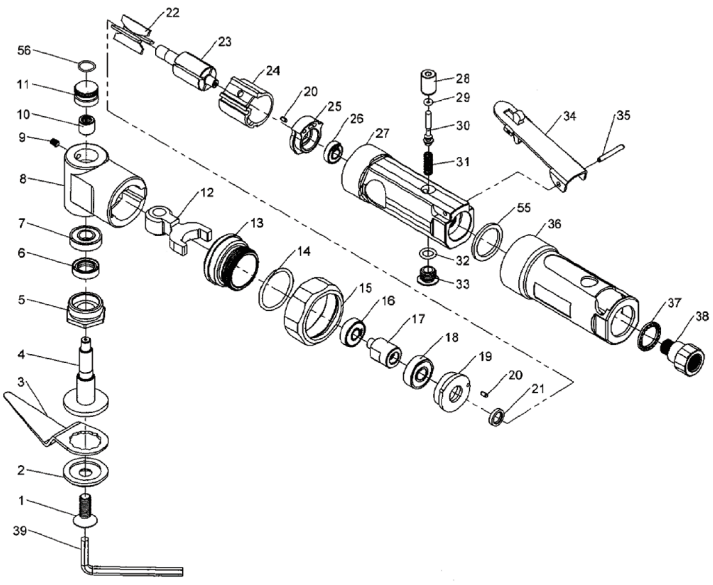
Air Knife
Item No : QK-121



Part List Item No : QK-121

	NO.	INDEX NO.	DESCRIPTION	Q'TY
	1	QK-121P01	Screw	1
	2	QK-121P02	Washer	1
	3	QK-121P03	Knife (Option)	1
	4	QK-121P04	Spindle Drive	1
	5	QK-121P05	Spindle Nut	1
	6	QK-121P06	Seal	1
	7	QK-121P07	Bearing	1
	8	QK-121P08	Angle Head	1
	9	QK-121P09	Screw (M4*6mm)	1
	10	QK-121P10	Needle Bearing	1
	11	QK-121P11	Bearing Case	1
	12	QK-121P12	Fork Drive	1
	13	QK-121P13	Clamp Nut	1
	14	QK-121P14	O-Ring	1
	15	QK-121P15	Coupling Nut	1
	16	QK-121P16	Ball Bearing (607zz)	1
	17	QK-121P17	Shaft-Crank	1
	18	QK-121P18	Bearing (0608zz)	1
	19	QK-121P19	Bearing Plate	1
	20	QK-121T20	Spring Pin (2.5*5) (2 pcs)	1 SET
	21	QK-121P21	Spacer	1

	NO.	INDEX NO.	DESCRIPTION	Q'TY
	22	QK-121T22	Rotor Blade (4 pcs)	1 SET
	23	QK-121P23	Rotor	1
	24	QK-121P24	Cylinder	1
	25	QK-121P25	Rear End Plate	1
	26	QK-121P26	Bearing (696zz)	1
	27	QK-121P27	Throttle Handle	1
	28	QK-121P28	Throttle Valve	1
	29	QK-121T29	O-Ring (1.9*ID3.8) (4 pcs)	1 SET
	30	QK-121P30	Valve Stem	1
	31	QK-121P31	Spring	1
	32	QK-121P32	O-Ring (P8)	1
	33	QK-121P33	Valve Plug	1
	34	QK-121P34	Lever	1
	35	QK-121P35	Spring Pin (Ø3*23)	1
	36	QK-121P36	Handle Grip	1
	37	QK-121P37	Washer	1
	38	QK-121P38	Air Inlet Bushing	1
	39	QK-121P39	Wrench Key 5	1
	55	QK-121P40	Felt Seal	1
	56	QK-121P41	O-Ring (P12)	1

Item No.	Oscillation	Ave. Air Consumption	Arbeitsdruck	Overall Length	Net Weight	Air Hose	Sound Pressure	Vibration level
	Per min	*CFM*	*bar*	*inch*	*LBS*	*inch*	*dBA*	*m/s²*
Illustrator	—			L	lb/kg			
QK-121	19000	4.3	6.3	6-15/16"	1.3	3/8"	91	2.8

Uncertainty K=0.5a if a ≤ 5 m/s² or K=0.4a if a>5 m/s²